

ABSTRACT OF THE DISCLOSURE

A wood lathe includes a bed, a headstock mounted on the bed and having a headstock housing, a motor mounted in the headstock housing and having a driving shaft with opposite first and second output ends, a spindle journaled to the headstock housing, a first transmission interconnecting the first output end and the spindle, a cooling fan disposed in the headstock housing for cooling the motor and including a driven shaft that is journaled to the headstock housing, and a second transmission interconnecting the second output end and the driven shaft. The cooling fan delivers airflow toward an annular outer area of the motor in a transverse direction relative to a rotation axis of the driving shaft.